(March 13, 1995)

Conformity With And Deviations From Plans And Stakes

The first paragraph of Section 1-05.4 is deleted in its entirety and replaced with the following:

5 6 7

8

9

10 11

12

13

14

1

2 3 4

The Contractor shall be responsible for setting and maintaining all alignment stakes, slope stakes, and grades necessary for the construction of the roadbed, surfacing, paving, channelization, illumination, signing, bridges, noise walls and retaining walls, if such construction is included in this project. Except for the survey control data to be furnished by the Contracting Agency, calculations, surveying, and measuring required for setting and maintaining the necessary lines and grades shall be the Contractor's responsibility. The Contractor shall provide the Contracting Agency copies of such calculations and staking data when requested by the Engineer. Copies of the Contracting Agency provided survey control data are available for the bidder's inspection at the office of the Engineer.

15 16 17

18

19

Any staking requirements for the project that do not fit field conditions will be reviewed and if necessary adjusted by the Engineer. Any necessary revision to the staking information will be provided to the Contractor for use in completing the work.

20 21 22

To facilitate the establishment of these lines and elevations, the Contracting Agency will provide the Contractor with the following survey control:

23 24 25

26

27

Roadbed, Surfacing, and Paving

Elevation benchmarks and center line alignment control points for the main line, one time only.

28 29

2. Technical advice if requested.

30 31 32

3. Computed grades where needed.

33 34

4. Horizontal curve deflections.

35 36 37 5. One copy of transit notes showing reference to control points.

38 39

Bridges, Noise Walls and Retaining Walls

40

An elevation bench mark and two points on roadway center line in the vicinity of each bridge, noise wall and retaining wall, one time only.

41 42 43 2. Technical advice if requested.

45 46 47

44

Computed elevations at the top of the roadway deck at 0.1 points along center line of each girder web. (All form grades, etc., shall be computed by the Contractor).

One copy of transit notes showing references to control points in the

48 49 50

vicinity of the bridge, noise wall or retaining wall.

51 52 The Contractor shall give the Contracting Agency three weeks notification to allow adequate time to provide the above data.

53

The Contractor shall ensure a surveying accuracy within the following tolerances:

54 55

56

1. Slope stakes ± 0.1 foot

Subgrade blue tops set 0.05 below grade

±0.01 foot

1	3.	Stationing	±0.01 foot
ı	٥.	•	±0.01 100€
2	4.	Alignment	±0.01 foot
3	5.	Surfacing red and yellow tops	±0.01 foot
4	6.	Paving pins for surfacing or paving	±0.005 foot
5	7.	Superstructure elevations	±0.005 foot
6		·	variation from
7			plan elevation
8	8.	Substructure	±0.02 foot
9			variation from
10			plan grades.
			. •

The Contractor shall slope stake the roadway before any construction may proceed. Slope stake offsets shall be maintained for the duration of the project unless otherwise approved by the Engineer.

Slope stakes shall be set at 50-foot intervals.

Subgrade bluetops and surfacing red and yellow tops shall be set at 50 foot intervals in tangent sections, 25 foot intervals in curve sections, and 10 foot intervals in intersection radii.

Paving pins shall be at 25-foot intervals.

At the Contracting Agency's discretion, it may spot-check the Contractor's surveying. These spot-checks will not change the requirements for normal checking and testing as described elsewhere, and do not relieve the Contractor of the responsibility of producing a finished product that is in accordance with the contract.

In all disputes concerning accuracy of lines and elevations, the Contracting Agency shall be assumed correct and the Contractor shall correct the discrepancies before construction work may proceed. No additional compensation will be paid for this corrective work.

Payment

 Payment will be made in accordance with Section 1-04.1 for the following bid item:

1. "Surveying", lump sum